ABSTRACT OF THE DISCLOSURE

In a distributed computing environment, a message gate may be the message endpoint for a client or service to communicate with another client or service. Message gates may be pre-generated and built into the device. For example, message gates may be generated during the build of embedded software as a means of including a built-in secure message endpoint that does not have to be constructed at runtime. A generation tool may be provided for the pre-construction of gates. The generation tool may include an XML parser, a code generator and a code compiler. In one embodiment, the code generator may be a Java source code generator and the code compiler may be a Java code compiler. During the build of the software for which built-in message gates is desired, the generation tool is run with input from all the relevant XML schemas for which gates are desired. The parser may receive a message schema corresponding to each service or service type that a message interface will be desired in the device. The parser may parse each schema into an intermediate format from which code generator produce source code for the message interface or verification part of a gate to be built-in to the device. Compiler produces executable code, e.g. Java bytecode, from the source code. The executable code may be linked into the operating code for the device during a code-build process for the device.